

WEST**End of Result Set**

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L1: Entry 3 of 3

File: DWPI

Oct 10, 2000

DERWENT-ACC-NO: 1997-235999

DERWENT-WEEK: 200052

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TITLE: Counter-balanced support stand for electronic measuring device - uses separate counter-balancing weights for balancing horizontal and vertical pivot movement of support stand with automatic precision adjustment

INVENTOR: METELSKI, A

PATENT-ASSIGNEE:

ASSIGNEE

CODE

LEICA AG

LEICN

LEICA MICROSYSTEMS AG

LEICN

PRIORITY-DATA: 1995CH-0002976 (October 12, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6129319 A	October 10, 2000	N/A	000	F16M013/00
WO <u>9713997</u> A1	April 17, 1997	G	062	F16M011/12
EP 855002 A1	July 29, 1998	G	000	F16M011/12

DESIGNATED-STATES: JP US AT BE CH DE DK ES FI FR GB GR IE IT LU
MC NL PT SE CH DE FR GB LI

CITED-DOCUMENTS: DE 4320443; EP 400384 ; EP 476551 ; EP 628290 ;
EP 656194 ; US 3891301

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US 6129319A	October 12, 1996	1996WO-EP04454	N/A
US 6129319A	May 11, 1998	1998US-0043404	N/A
US 6129319A		WO <u>9713997</u>	Based on
WO <u>9713997</u> A1	October 12, 1996	1996WO-EP04454	N/A
EP 855002A1	October 12, 1996	1996EP-0934667	N/A
EP 855002A1	October 12, 1996	1996WO-EP04454	N/A
EP 855002A1		WO <u>9713997</u>	Based on

INT-CL (IPC): F16M 11/12; F16M 13/00

ABSTRACTED-PUB-NO: US 6129319A
BASIC-ABSTRACT:

The support stand has a vertical support (1) extending from a floor-standing base and counter-balanced arms at its upper end, respectively supporting the load (3) and the counter-balance weight. The latter is provided by 2 partial weights (5a,5b) respectively balancing the horizontal and vertical pivot movement, each adjusted via a respective setting mechanism with microprocessor software used for calculating the displacement parameters for the weights.

ADVANTAGE - Precision adjustment for compensating loading variations caused by inertia, or handling etc.
ABSTRACTED-PUB-NO:

WO 9713997A
EQUIVALENT-ABSTRACTS:

The support stand has a vertical support (1) extending from a floor-standing base and counter-balanced arms at its upper end, respectively supporting the load (3) and the counter-balance weight. The latter is provided by 2 partial weights (5a,5b) respectively balancing the horizontal and vertical pivot movement, each adjusted via a respective setting mechanism with microprocessor software used for calculating the displacement parameters for the weights.

ADVANTAGE - Precision adjustment for compensating loading variations caused by inertia, or handling etc.

CHOSEN-DRAWING: Dwg.2/20

TITLE-TERMS: COUNTER BALANCE SUPPORT STAND ELECTRONIC MEASURE
DEVICE SEPARATE COUNTER BALANCE WEIGHT BALANCE HORIZONTAL
VERTICAL PIVOT MOVEMENT SUPPORT STAND AUTOMATIC PRECISION ADJUST

DERWENT-CLASS: Q68 S01 S02 S03

EPI-CODES: S01-J09; S02-J04B1; S03-E04R;

SECONDARY-ACC-NO:
Non-CPI Secondary Accession Numbers: N1997-195078

WEST**End of Result Set**

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L2: Entry 2 of 2

File: DWPI

Dec 19, 2000

DERWENT-ACC-NO: 1997-310694

DERWENT-WEEK: 200102

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TITLE: Microscope stand for use in operating theatre with possible application in robotics or astronomy - has fibre-reinforced support arm with exceptional lightness and strength for large radius of use and attractive practical appearance with vibration damping elastomer in joints and internal wiring capability

INVENTOR: METELSKI, A; WAEGER, K ; WAGER, K

PATENT-ASSIGNEE:

ASSIGNEE

CODE

LEICA AG

LEICN

LEICA MICROSYSTEMS AG

LEICN

PRIORITY-DATA: 1995CH-0003467 (November 27, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6162523 A	December 19, 2000	N/A	000	B32B005/12
WO <u>9720166</u> A1	June 5, 1997	G	026	F16M011/04
EP 864063 A1	September 16, 1998	G	000	F16M011/04

DESIGNATED-STATES: JP US AT BE CH DE DK ES FI FR GB GR IE IT LU
MC NL PT SE CH DE FR GB LICITED-DOCUMENTS:DE 3313155; DE 4214858 ; EP 476551 ; EP 476552 ;
EP 554711 ; EP 628290 ; FR 2645070

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US 6162523A	November 27, 1996	1996WO-EP05241	N/A
US 6162523A	September 11, 1998	1998US-0068911	N/A
US 6162523A		WO <u>9720166</u>	Based on
WO 9720166A1	November 27, 1996	1996WO-EP05241	N/A
EP 864063A1	November 27, 1996	1996EP-0941041	N/A
EP 864063A1	November 27, 1996	1996WO-EP05241	N/A
EP 864063A1		WO <u>9720166</u>	Based on

INT-CL (IPC): B32B 5/12; F16M 11/04; G02B 7/00

ABSTRACTED-PUB-NO: US 6162523A
BASIC-ABSTRACT:

This novel stand is especially suitable for use with an operating microscope. It includes vertical and horizontal support (1, 2, 16, 40). In the new design, one or more of the supports are fibre-reinforced composites.

USE - A stand for use with an operating microscope. The desirable properties of the arm also suggest possible uses in e.g. robotics or astronomy.

ADVANTAGE - Particular advantages of the design are lightness and strength. This improves portability, whilst good stability is obtained. The stand is light enough for use on virtually any support. The radius of operation is greater for a given total weight, thanks to the long, lightweight, rigid arm. Little additional weight is required to counterbalance the arm itself.

Fibre reinforcement as described, resists the high moments caused by bending and impacts. The combination of colour and carbon fibre visibility is both attractive and practical in the operating theatre. The

microscope is well protected against vibration by its structural materials and the damping in the joints.
ABSTRACTED-PUB-NO:

WO 9720166A
EQUIVALENT-ABSTRACTS:

This novel stand is especially suitable for use with an operating microscope. It includes vertical and horizontal support (1, 2, 16, 40). In the new design, one or more of the supports are fibre-reinforced composites.

USE - A stand for use with an operating microscope. The desirable properties of the arm also suggest possible uses in e.g. robotics or astronomy.

ADVANTAGE - Particular advantages of the design are lightness and strength. This improves portability, whilst good stability is obtained. The stand is light enough for use on virtually any support. The radius of operation is greater for a given total weight, thanks to the long, lightweight, rigid arm. Little additional weight is required to counterbalance the arm itself.

Fibre reinforcement as described, resists the high moments caused by bending and impacts. The combination of colour and carbon fibre visibility is both attractive and practical in the operating theatre. The microscope is well protected against vibration by its structural materials and the damping in the joints.

CHOSEN-DRAWING: Dwg.1/3

TITLE-TERMS: MICROSCOPE STAND OPERATE THEATRE POSSIBILITY APPLY
ROBOT ASTRONOMY FIBRE REINFORCED SUPPORT ARM EXCEPTIONAL LIGHT
STRENGTH RADIUS ATTRACT PRACTICAL APPEAR VIBRATION DAMP ELASTOMER
JOINT INTERNAL WIRE CAPABLE

DERWENT-CLASS: A88 P73 P81 Q68

CPI-CODES: A12-H09; A12-S08D; A12-V03D;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; H0317 Polymer Index [1.2] 018 ; H0328 ;
P0464*R D01 D22 D42 F47 Polymer Index [1.3] 018 ; K9892 ; K9745*R
; B9999 B5447 B5414 B5403 B5276 ; K9574 K9483 ; K9676*R ; N9999
N6268*R ; B9999 B4079 B3930 B3838 B3747 Polymer Index [1.4] 018 ;
ND01 ; K9416 ; Q9999 Q8026 Q7987 ; Q9999 Q9369 ; B9999 B4842
B4831 B4740 ; B9999 B3747*R ; Q9999 Q8355 Q8264 Polymer Index
[1.5] 018 ; R05086 D00 D09 C* 4A ; S9999 S1661 ; S9999 S1070*R ;
S9999 S1081 S1070 ; S9999 S1194 S1161 S1070 ; A999 A419 ; A999
A771 Polymer Index [1.6] 018 ; D00 ; S9999 S1661 ; S9999 S1070*R
; S9999 S1081 S1070 ; S9999 S1194 S1161 S1070 ; A999 A419 ; A999
A771 Polymer Index [1.7] 018 ; G2891 D00 Si 4A ; S9999 S1661 ;
S9999 S1070*R ; S9999 S1081 S1070 ; S9999 S1194 S1161 S1070 ;
A999 A419 ; A999 A771 Polymer Index [2.1] 018 ; P0635*R F70 D01 ;
S9999 S1661 ; S9999 S1070*R ; S9999 S1081 S1070 ; S9999 S1194
S1161 S1070 ; A999 A419 ; A999 A782 Polymer Index [2.2] 018 ;
P0737*R P0635 H0293 F70 D01 D18 ; S9999 S1661 ; S9999 S1070*R ;
S9999 S1081 S1070 ; S9999 S1194 S1161 S1070 ; A999 A419 ; A999
A782 Polymer Index [3.1] 018 ; P0088*R Polymer Index [3.2] 018 ;
P0464*R D01 D22 D42 F47 Polymer Index [3.3] 018 ; ND01 ; K9416 ;
Q9999 Q8026 Q7987 ; Q9999 Q9369 ; B9999 B4842 B4831 B4740 ; B9999
B3747*R ; Q9999 Q8355 Q8264 Polymer Index [3.4] 018 ; Q9999 Q7169
Q7158 Q7114 ; B9999 B4397 B4240 ; B9999 B4262 B4240 ; K9870 K9847
K9790 ; K9574 K9483 ; K9552 K9483 ; K9712 K9676 ; K9676*R ;
K9745*R Polymer Index [3.5] 018 ; R01740 G2335 D00 F20 H* O* 6A ;
A999 A475 Polymer Index [3.6] 018 ; A999 A077*R Polymer Index
[4.1] 018 ; H0124*R Polymer Index [4.2] 018 ; ND01 ; K9416 ;
Q9999 Q8026 Q7987 ; Q9999 Q9369 ; B9999 B4842 B4831 B4740 ; B9999
B3747*R ; Q9999 Q8355 Q8264 Polymer Index [4.3] 018 ; Q9999 Q7954
Q7885 ; B9999 B4002 B3963 B3930 B3838 B3747 ; Q9999 Q7896 Q7885

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1997-100029

Non-CPI Secondary Accession Numbers: N1997-257326